INDUSTRIAS TECHNOFLEX SA

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Reglas Vibro-Planeadoras Eléctricas y Gasolina

Vibrating Surfaces Screeds Electric and Petrol Engine
Règles Vibre-Planeuses Électriques et Essence
Réguas Vibro-Planeadoras Eléctricas e Gasolina

Manual de Instrucciones / Lista de Recambios

Instruction Manual / Spare Parts
Manuel d'Instructions / Liste de Pièces de Rechange
Manual de instruções / Lista de reposições

MAQUINARIA PARA LA CONSTRUCCIÓN Y OBRAS PÚBLICAS
BUILDING AND PUBLIC WORKS MACHINERY
MACHINERIE POUR LA CONSTRUCTION ET LES TRAVAUX PUBLICS
MAQUINARIA PARA A CONSTRUÇÃO E OBRAS PÚBLICAS

Este manual está compuesto por los siguientes capitulos:
This manual is divided into the sections listed below:
Ce manuel contient les sections suivantes:
Este manual está composto dos seguintes capítulos:

1A- Utilización (Español)

1B- *Utilización (Inglés)*

1C- Utilización (Francés)

1D- Utilização (Português)

2.- Recambios Regla, Tipo PGM (Español, *Inglés*, Francés y Portugués)

3.- Recambios Regla, Tipo PGK (Español, *Inglés*, Francés y Portugués)

Este manual contiene información y procedimientos que son necesarios para utilizar y mantener esta máquina. Para su propia seguridad y protección, por favor lea cuidadosamente, entienda y observe todas las instrucciones de seguridad descritas en este manual. LOS DATOS CONTENIDOS EN ESTE MANUAL SON CORRECTOS EN EL MOMENTO DE SU EDICIÓN. NO OBSTANTE EL FABRICANTE SE RESERVA EL DERECHO DE MODIFICAR LAS CARACTERÍSTICAS, SIN PREVIO AVISO A FAVOR DEL COMPROMISO DE MEJORA CONTINUA.

This manual provides information and procedures to safely operate and maintain this machine. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual. THE INFORMATION CONTAINED IN THIS MANUAL ARE CORRECT FROM THE MOMENT OF EDITING. HOWEVER THE MANUFACTURER RESERVES THE RIGHT TO MODIFY THE CHARACTERISTICS, WITHOUT PRIOR NOTICE IN CONSIDERATION OF CONTRACT COMMITMENT OF CONTINUOUS IMPROVEMENT.

Ce manuel contient les informations et les procédés qui sont nécessaires à l'utilisation et à l'entretien de la machine Pour votre propre sécurité et protection, lisez attentivement, observez et appliquez toutes les instructions de sécurité décrites dans ce manuel. LES DONNÉES CONTENUES DANS CE MANUEL SONT CORRECTES AU MOMENT DE L'ÉDITION. CEPENDANT LE FABRICANT SE RÉSERVE LE DROIT DE MODIFIER LES CARACTERISTIQUES, SANS AVIS PRÉALABLE EN VUE DE L'AMÉLIORATION CONTINUE.

Este manual contém informação e procedimentos que são necessários para utilizar e manter esta máquina. Para a sua própria seguridade e protecção, faça o favor de ler com cuidado, entender e observar todas as instruções de seguridade descritas neste manual. OS DATOS QUE ESTE MANUAL CONTÉM SÃO CORRECTOS NO MOMENTO DA SUA EDIÇÃO. MAS O FABRICANTE RESERVA-SE O DIREITO DE MODIFICAR AS CARACTERÍSTICAS SEM ANTES AVISAR, A FAVOR DO COMPROMISSO DA MELHORA CONTÍNUA.

Mantenga este manual ó una copia de él con la máquina. Si se pierde ó Vd. desea un ejemplar adicional haga el favor de comunicarse con INDUSTRIAS TECHNOFLEX S.A. Esta máquina fue fabricada con la seguridad del usuario en mente; sin embargo, situaciones peligrosas pueden presentarse si la máquina es utilizada inapropiadamente. Siga las instrucciones de utilización cuidadosamente. Si Vd. tiene preguntas ó dudas acerca de la utilización o mantenimiento de este equipo, haga el favor de comunicarse con INDUSTRIAS TECHNOFLEX S.A.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact INDUSTRIAS TECHNOFLEX S.A. This machine is built with user safety in mind, however, it can present hazards if improperly operated and serviced. Follow operating instructions carefully! If you have questions about operating or servicing this equipment, please contact INDUSTRIAS TECHNOFLEX S.A.

Gardez ce manuel ou une copie avec la machine. En cas de perte ou si vous désirez un exemplaire supplémentaire veuillez vous adresser à INDUSTRIAS TECHNOFLEX S.A. Cette machine a été fabriquée en pensant à la sécurité de son utilisateur; toutefois, des situations dangereuses peuvent se présenter si la machine n'est pas utilisée convenablement. Suivez les instructions attentivement. Si vous avez des questions ou des doutes, au sujet de l'utilisation ou l'entretien de cet équipement, adressez-vous à INDUSTRIAS TECHNOFLEX S.A.

Mantenha este manual ou uma cópia dele com a máquina. Se o perder ou se o senhor desejar um exemplar adicional faça o favor de se comunicar com INDÚSTRIAS TECHNOFLEX S.A. Esta máquina foi fabricada pensando na seguridade do usuário; mas se a máquina for utilizada impropriamente poderiam se apresentar em situações perigosas. Siga as instruções de utilização cuidadosamente. Se o senhor tiver perguntas ou dúvidas sobre a utilização ou mantimento de este equipe, faça o favor de se comunicar com INDÚSTRIAS TECHNOFLEX S.A.

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1.1 Safety Notes

This manual contains CAUTIONS and WARNINGS which must be followed to prevent the possibility of improper service, damaged to the equipment, or personal injury. Read and follow all the CAUTIONS and WARNINGS included in this instructions manual.

WARNING: Warnings warn of conditions or practices which could lead to personal injury.

1.2 Warning and Safety Instructions

WARNING

Read All Instructions!

When using electric tools, basic safety precautions should always be followed, to reduce the risk of fire, electric shock, and personal injury.

Guard against electric shock!

1. Never operate the equipment with damaged or worn electrical cords! When using and extension cord be sure to use one heavy enough to carry the current load.
2. Prevent body contact with grounded surfaces, such as pipes, metal railings, radiators and metal ductwork.
3. When the equipment is used outdoors, use only extension cords intended for and marked for outdoor use.
4. Always keep power cord away from heat, oil and sharp edges which can damage it.
5. Make certain the equipment is in good working order and **properly grounded** before starting, as well as the **connection plug** where this will be connected.

Save these instructions!

READ ALL INSTRUCTIONS

WARNING

Familiarity and proper training are required for the safe operation of this equipment! Equipment operated or serviced improperly or by untrained personnel can be dangerous! Read all operating instructions and the safety notes below. Familiarize yourself with the proper use of this equipment before operating it.

1.Keep your work area clean and free of clutter.

2.Keep your work area well lit.

3.DO NOT allow children or people other than the operator to handle power cables, extension cords or the equipment.

4.DO NOT allow non-essential personnel or visitors in the work area.

5.NEVER carry equipment by cord or pull on it to disconnect it from receptacle. Keep cord away from heat, oil and sharp edges.

6.Stay alert! Watch what you are doing. Use common sense. NEVER operate the vibrator motor when you are tired or while under the influence of drugs, alcohol, or medication.

7.Keep hands, feet, hair and loose clothing away from moving parts. They can be caught in moving parts.

8.DO NOT operate equipment if switch does not operate properly.

9.DO NOT overreach! Keep proper footing and balance at all times. Make sure any supporting structures are strong enough and stable enough to support your weight and the weight of any equipment on it.

10.Wear protective clothing when operating equipment. Goggles or safety glasses will protect against eye damage caused by flying debris.10.DO NOT force tool. Use the correct tool for which it is designed.

11.DO NOT force tool. Use the correct tool for which it is designed.

12.NEVER allow untrained personnel to operate or service the equipment.

13.Maintain tools with care. Keep vibrator unit clean for better and safer performance. Inspect motor cord periodically and if damaged, have it repaired by an authorized service facility.

14.NEVER use equipment with a defective switch. If the switch does not turn the motor "I" or "0", have it repaired by an authorized service facility before using the motor.

15.Replace worn or damaged parts with replacement parts designed and recomended for use by **INDUSTRIAS TECHNOFLEX S.A.**

16.Any servicing, other than that covered in this instruction manual, should be performed by an authorized **INDUSTRIAS TECHNOFLEX S.A** Service Representative.

17.In all the countries the normative ones are not same, please if in their country the demand level is not contemplated in this manual, we request them they indicate it to us.

Save these instructions!

1.3 Technical Data

PGM MODEL (Single-Phase Motor)	
Voltage ..... 2P+T	230 V. or 115 V.
Frequency ..... Hz.	50/60
Power ..... W.	2000
Nominal intensity..... A.	10
Rotational speed of the phase.....rpm.	1500
Length …….cm.	42
Weight……..... Kg. (lbs.)	9.1 (20)
Standar width..... mm.	25
Optional width……mm.	30
Groove depth……..mm.	35

PETROL ENGINE MODELS			
	PGKV	**PGK**	**PGH**
Engine	Kawasaki TG 18 (2 Stroke)	CL 133 F Motor Gasolina 4 Tiempos	Honda GX25 (4 Stroke)
Maximum Power	0,6 Hp	0,8 Hp	1,1 Hp
Fuel Type	Gasoline **MIXES**	***UNLEADED*** *Fuel Only*	***UNLEADED*** *Fuel Only*
Mixture Ratio	4 %		
Tank Capacity	0,5 l	0,45 l	0,55 l
Fuel Duration Approx.	1 Hour	1 Hour	1 Hour
Maximum Vibration	6000 v.p.m.	7000 v.p.m.	7000 v.p.m.
Max. Centrífugal Force	2000 N	2000 N	2000 N
Length of Strip	3,3 / 5 / 6,6 / 10 [ft] (1 / 1,5 / 2 / 3) [m]		
Machine Weight Without Stripes	20 ft (9) [m]		
Surface Strip Weight	6,6 ft (3) [m]		

1.4 General Characteristics

The machine will be used by personnel trained for this job, it will only be used in specific jobs for which it has been technically developed, after having read the instructions contained in this manual and which must be fellowed correctly.

The manufacturer or authorised distributor must be consulted about any doubts.

The manufacturer **Industrias Technoflex S.A.**, will not accept any responsibility derived from incorrect installation, manipulation, or misuse of the Vibro-Surfacing Screed.

Not acting according to the instructions indicated in this manual, will cause the cancellation of the guarantee.

1.5 Safety at Work

You must wear eye protection when operating the Vibro-Surfacing Screed to prevent injury from concrete particles, It is also advisable to wear hearing protection against the sound produced by the motor.

Do not attempt to handle any of the moving parts whilst the motor is running.

The manufacturer will not accept responsibilities, for accidents if they derive from structure modification of the machine.

In adition to our recommendations the safety regulations of each country in force.

1.6 Conditions of Use

The Vibro-Surfacing Strip model, is designed to give maximum satisfaction to the user, as long as the instructions of use and maintenance contained in this manual.

This machine is, due to its original design, the ideal machine to attain a high quality finish to concrete surfaces.

1.7 Assembly Instructions

The Vibro-Surfacing Screed is sent with the Strip mounted and the disassembled arms. To assemble these please follow the following instructions: **(Sees you fig.: 1.7-1 and 1.7-2)**

1st. - Unseal the arms **Pos. 1** that they are sealed above the Vibro-Surfacing Screed.

2nd. - To mount them, screwing **STRONGLY** with a key, the screw and the washers **Pos. 2** and **3**.

3rd. - To mount the central handle **Pos.6**, using the screws **Pos. 5**.

4th.- For the disassembly, to act in inverse sense.

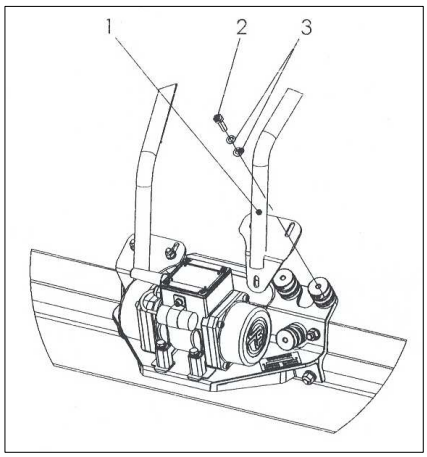


Fig. 1.7-1

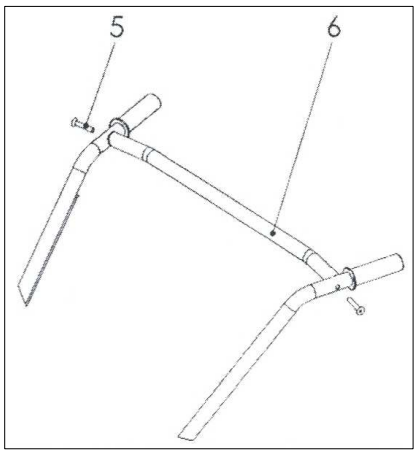


Fig. 1.7-2

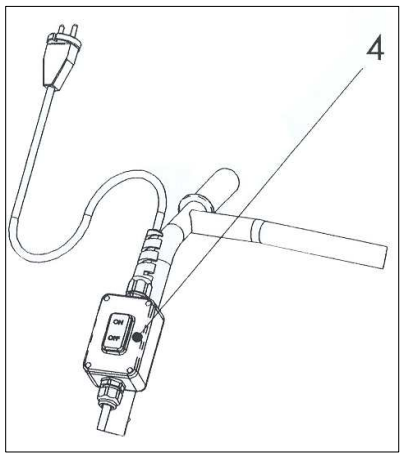


Fig. 1.7-3

1.8 Instructions of Use for The Electric Machines PGM Type:

To starting the machine for the first use:

1st.- To make sure of the correct assembly of the arms.

2nd.- To make sure of the perfect state of the cable, if presents deterioration it SHOULD BE SUBSTITUTED.

3rd.- To Make sure that the position of the outburst switch, **Pos. 4** located above the box of connections of the motor are in position "OFF". **(Sees you Fig. 1.7-3)**.

4th.- To connect the electric cable to the main supply, making sure that the tension of this is the same one that indicates the characteristics plate.

5th.- To put the switch **Pos. 4** in position "ON", and the machine is under conditions of working.

6th.- Once concluded the work and to stop the machine it should put on the switch **Pos. 4** in position "0."

1.8.1 Instructions of Use for The Petrol Machine PGK, PGH Type:

1st.- To make sure of the correct assembly of the arms.

2nd.- To fill the deposit of fuel with GASOLINE MIXES.

3rd.- To proceed to the outburst, operation and stop it, to read the instructions of the maker of the engine attentively,which is attached to this manual.

1.9 Maintenance Instructions

The parts must be thoroughly and perfectly cleaned of all concrete debris evryday after use.

A practical suggestion is to coat the vibrating and surfacing strips and the aliminium support of the machine with diesel oil to prevent the concrete from sticking making cleaning easier.

The machines **PGM** type are exempt of maintenance, for the machines **PGK, PGH** type, to follow the instructions of the maker of the engine.

1.10 Instructions for Ordering Spare Parts

Spare parts are on sale thrugh the official services and in the brand distributors in your locality.

When you order spares do not forget to indicate:

- Type of machine
- Units ordered, code and description of parts requested , and whenever possible, the series number of the machines
- When equipment or spare parts have to be returned to the factory its necessary to contact with **Industrias Technoflex S.A.** for prior agreement, "AN ABSOLUTE NECESSITY FOR THEIR RECEPTION".

1.11 Transport and Storage

- **Conditions for transport and storage:**

The packaging of this Vibrating-Surfaces Screed allows its easy transport without taking any special precaution.

Its storage this machines if it is for a long period of time, its storage will be in a safe dry place.

Before storage and after use the machine must be perfectly cleaned, taking all the concrete leftovers off, this operation can be carried out by hydro jet avoiding the electric parts.

Remember that for reasons of security in the transport, the tank of fuel leaves factory WITHOUT GASOLINE.

1.12 Guarantee

A) **Period of Guarantee**

Industrias Technoflex S.A., guarantees the products and components they manufacture, for a period of 6 months.

B) **Coverage of Guarantee**

The guarantee covers all the defects from manufacturing of the components of the product, as well as their replacement or substitution, on behalf of the Technical After Sales Service.

C) **Cancellation of Guarantee**

The guarantee does not cover the misuse or inadequate manipulation, on behalf of the use of the machine, knocks, maltreatment or repairing by unauthorised personnel.

During the period of guarantee the breakdowns must be repaired by personnel from **Industrias Technoflex S.A.**, authorised to do so, if this is not so the right given by the guarantee will be lost.

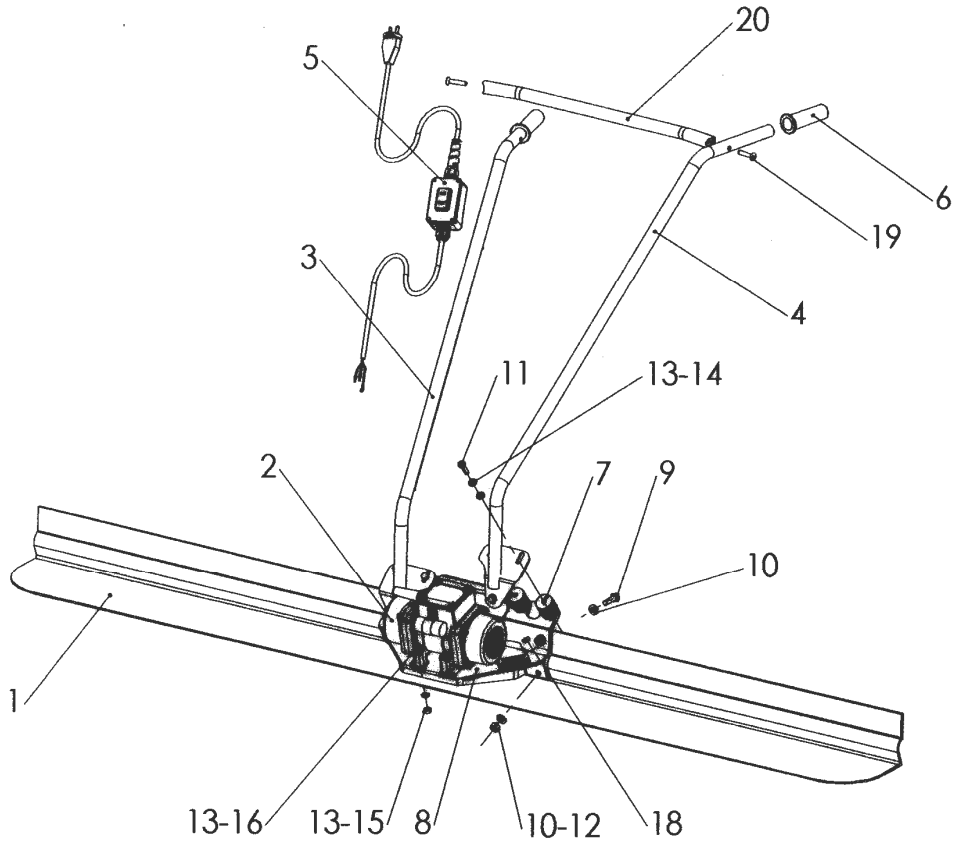
The equipment which has been dismantled or manipulated previously by personnel unauthorised by **Industrias Technoflex S.A.** will not be in guarantee.

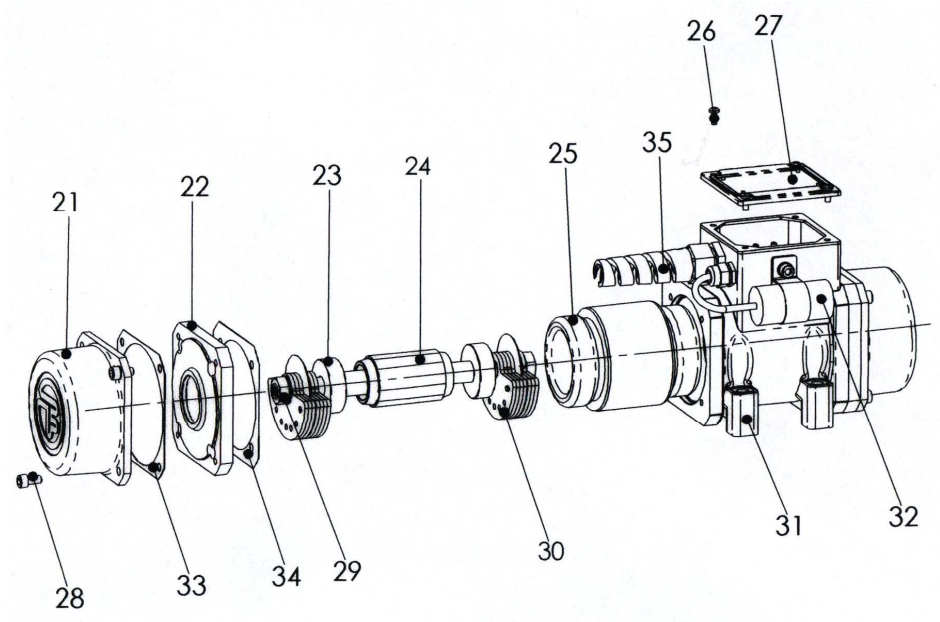
In all the cases of application for guarantee, **prior notice** must send the equipment to **Industrias Technoflex S.A.** or where they indicate.

IMPORTANT NOTICE:

Industrias Technoflex S.A., are not responsible for damage caused to the product or persons due to their misuse or bad manipulation.

2.1 Montaje Regla PGM / *PGM Screed Assembly* / Montage Règle PGM Montajem Régua PGM

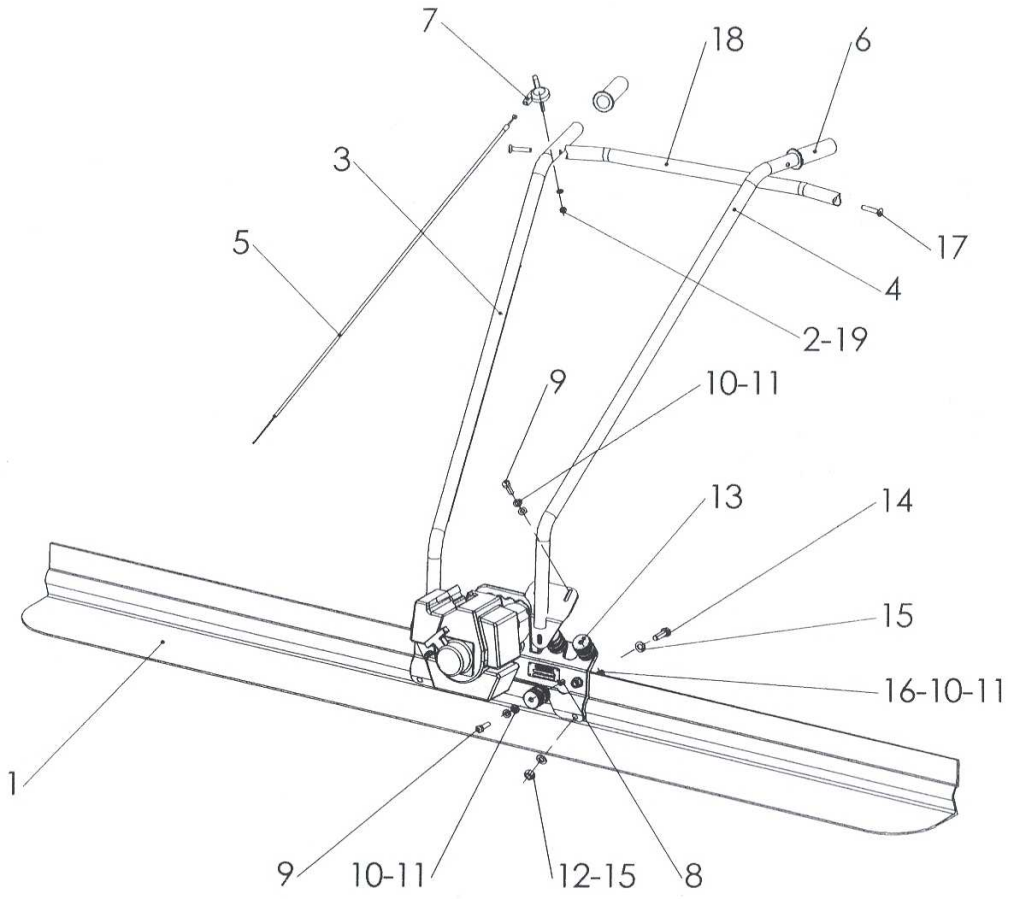


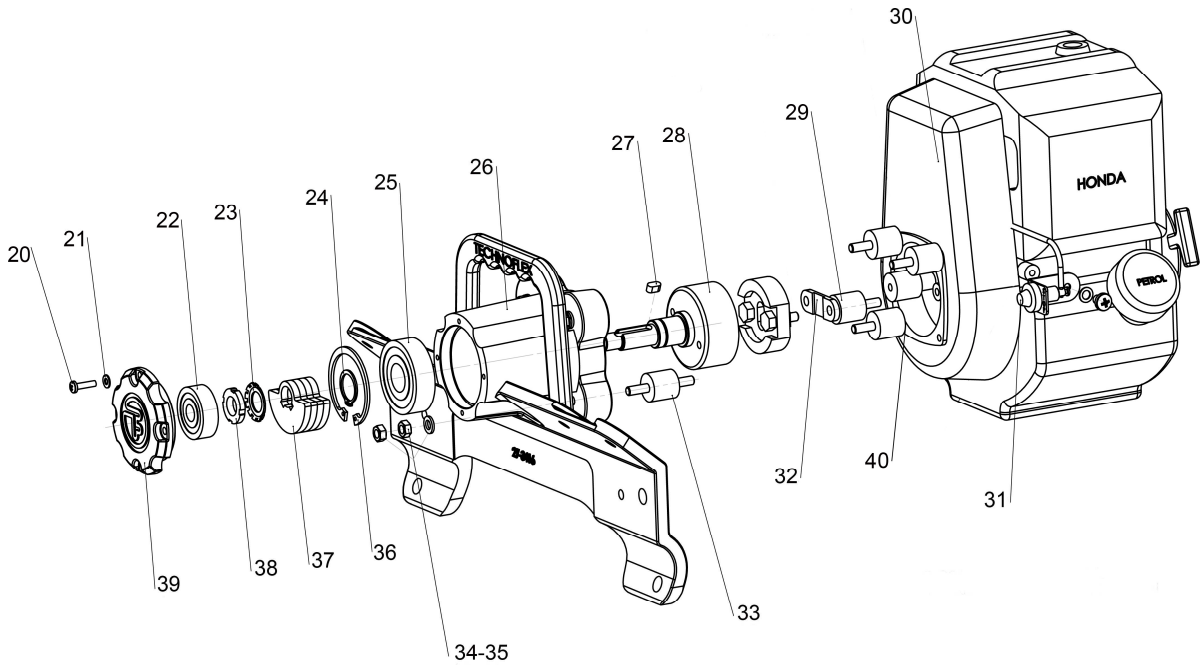


Lista de Recambios / *Spare Parts* / Liste de Pièces de Rechange / Lista de reposições

Código *Code*	**Pos.**	**Cant.** *Qty.*	**Descripción**	***Description***	**Description**	**Descrição**
173431R0-3	1	1	Regle	*Strip*	Règle	Régua
141362R012	2	1	Motor Vibrador	*Vibrator Motor*	Moteur Vibrateur	Motor Vibrador
141358R013	3	1	Manillar Derecho	*Right Handle*	Poignée Droite	Manípulo Direito
141357R013	4	1	Manillar Izquierdo	*Left Handle*	Poignée Gauche	Manípulo Esquerdo
141569R014	5	1	Conjunto Interruptor	*Switch set*	Groupe interrupteur	Jogo interruptor
4028060025	6	2	Empuñadura	*Hand Grip*	Anse	Maçaneta
141393R014	7	6	Silemblock	*Silemblock*	Silemblock	Silemblock
173414R012	8	1	Base Soporte	*Support*	Support	Base Suporte
3933210030	9	4	Tornillo M-10x30	*Screw M-10x30*	Vis M-10x30	Parafuso M-10x30
3125200010	10	8	Arandela ø10	*Washer ø10*	Rondelle Ø10	Arandela ø10
3933208020	11	6	Tornillo M-8x20	*Screw M-8x20*	Vis M-8x20	Parafuso M-8x20
3985200010	12	4	Tuerca Autoblocante M-10	*Lock Nut M-10*	Écrou Autobloquant M-10	Porca Autobloqueante M-10
3125200008	13	18	Arandela ø8	*Washer ø8*	Rondelle Ø8	Arandela ø8
3127100008	14	10	Arandela ø8	*Washer ø8*	Rondelle Ø8	Arandela ø8
3985200008	15	4	Tuerca Autoblocante M-8	*Lock Nut M-8*	Écrou Autobloquant M-8	Porca Autobloqueante M-8
3933208060	16	4	Tornillo M-8x60	*Screw M-8x60*	Vis M-8x60	Parafuso M-8x60
3933208025	17	4	Tornillo M-8x25	*Screw M-8x25*	Vis M-8x25	Parafuso M-8x25
3913108025	18	2	Prisionero M-8x25	*Screw M-8x25*	Vis M-8x25	Parafuso M-8x25
3991108040	19	2	Tornillo M-8x40	*Screw M-8x40*	Vis M-8x40	Parafuso M-8x40
141485R013	20	1	Tirante	*Central Handle*	Barre de Maintien	Tirante
173179R012	21	2	Tapa Excéntricas	*Excenters Cover*	Couvercle Excentriques	Tampa Excéntricas
173181R013	22	2	Tapa	*Cover*	Couvercle	Tampa
4060630202	23	2	Rodamiento	*Bearing*	Roulement	Rodamento
141215R014	24	1	Rotor	*Rotor*	Rotor	Rotor
173246R014	25	1	Estátor	*Stator*	Stator	Estátor
3985204012	26	4	Tornillo M-4x12	*Screw M-4x12*	Vis M-4x12	Parafuso M-4x12
173180R013	27	1	Tapa	*Cover*	Couvercle	Tampa
3912106015	28	16	Tornillo M-6x15	*Screw M-6x15*	Vis M-6x15	Parafuso M-6x15
181024R014	29	2	Tuerca	*Nut*	Écrou	Tuerca
173177R014	30	14	Excéntrica	*Excenter*	Excentrique	Excéntrica
173183R011	31	1	Carcasa Motor	*Motor Housing*	Carcasse Moteur	Carcaça Motor
4025999006	32	1	Condensador 6µF	*Capacitor 6µF*	Condenseur 6µF	Condensador 6µF
173528R014	33	1	Junta	*Seal*	Joint	Junta
173661R014	34	1	Junta	*Seal*	Joint	Junta
4048000033	35	1	Prensaestopas	*Stopper*	Presse etoupe	Prensa-estopas

3.1 Montaje Regla / *Screed Assembly* / Montage Règle Montajem Régua





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Código *Code*	**Pos.**	**Cant.** *Qty.*	**Descripción**	***Description***	**Description**	**Desrição**
173431R0-3	1	1	Regle	*Strip*	Règle	Régua
3985200006	2	1	Tuerca Autoblocante M-6	*Lock Nut M-6*	Écrou Autobloquant M-6	Porca Autobloqueante M-6
141358R013	3	1	Manillar Derecho	*Right Handle*	Poignée Droite	Manillar Dereito
141357R013	4	1	Manillar Izquierdo	*Left Handle*	Poignée Gauche	Manillar Esquerda
141361R014	5	1	Conjunto Cable	*Cable Assembly*	Ensemble Câble	Conjunto Cabo
4028060025	6	2	Empuñadura	*Hand Grip*	Anse	Maçaneta
4046006025	7	1	Mando Acelerador	*Gas Lever*	Accélérateur	Comando Acelerador
3913108025	8	2	Prisionero M-8x25	*Screw M-8x25*	Vis M-8x25	Parafuso M-8x25
3933208020	9	6	Tornillo M-8x20	*Screw M-8x20*	Vis M-8x20	Parafuso M-8x20
3125200008	10	10	Arandela ø8	*Washer ø8*	Rondelle Ø8	Arandela ø8
3127100008	11	10	Arandela ø8	*Washer ø8*	Rondelle Ø8	Arandela ø8
3985200010	12	4	Tuerca Autoblocante M-10	*Lock Nut M-10*	Écrou Autobloquant M-10	Porca Autobloqueante M-10
141393R014	13	6	Silemblock	*Silemblock*	Silemblock	Silemblock
3933210030	14	4	Tornillo M-10x30	*Screw M-10x30*	Vis M-10x30	Parafuso M-10x30
3125200010	15	8	Arandela ø10	*Washer ø10*	Rondelle Ø10	Arandela ø10
3933208025	16	4	Tornillo M-8x25	*Screw M-8x25*	Vis M-8x25	Parafuso M-8x25
3991108040	17	2	Tornillo M-8x40	*Screw M-8x40*	Vis M-8x40	Parafuso M-8x40
141485R013	18	1	Tirante	*Central Handle*	Barre de Maintien	Tirante
3125200006	19	1	Arandela Ø6	*Washer Ø6*	Rondelle Ø6	Arandela Ø6
3985204015	20	4	Tornillo M-4x15	*Screw M-4x15*	Vis M-4x15	Parafuso M-4x15
3798100004	21	4	Arandela dent. Ø4.5	*Washer Ø4.5*	Rondelle Ø4.5	Arandela Ø4.5
4060630104	22	1	Rodamiento 6301zz	*Bearing 6301zz*	Roulement 6301zz	Rolamento 6301zz
4013000002	23	1	Arandela MB2	*Washer MB2*	Rondelle MB2	Arandela MB2
4005000020	24	1	Circlip E-20	*Circlip E-20*	Circlip E-20	Anel retenção E-20
4060630404	25	1	Rodamiento 6304zz	*Bearing 6301zz*	Roulement 6301zz	Rolamento 6301zz
173416R012	26	1	Base	*Base*	Base	Base
4022050515	27	1	Chaveta 5x5x15	*Key 5x5x15*	Clés 5x5x15	Chave 5x5x15
172964R014	28	1	Campana	*Bell*	Cloche	Sino
4070002021	29	2	Silemblock 20-20TH	*Silent block 20-20TH*	Silent bloc 20-20TH	Silent blok 20-20TH
4047000022	30	1	Motor Honda GX25	*Honda Engine GX25*	Moteur Honda Gx25	Motor Honda GX25
141744R014	31	1	Conjunto paro	*Stop asembly*	Ensemble d'arrêt	Conjunto paro
173663R014	32	1	Pletina embrague	*Clutch plate*	Disque d'embrayage	Disco de embreagem
4070002020	33	1	Silemblock 20-20T	*Silent block 20-20T*	Silent bloc 20-20T	Silent blok 20-20T
3798100006	34	4	Arandela dent. Ø6.5	*Washer Ø6.5*	Rondelle Ø6.5	Arandela Ø6.5
3934200006	35	8	Tuerca exagonal M6	*Nut M-6*	Écrou M-6	Porca M-6
4006000052	36	1	Circlip I-52	*Circlip E-52*	Circlip E-52	Anel retenção E-52
173560R014	37	4	Excéntrica	*Eccentric*	Excentrique	Excêntrico
4075000002	38	1	Tuerca KM2	*Nut KM2*	Écrow KM2	Porca KM2
120532R014	39	1	Tapeta	*Top*	Haut	Topo
3021200006	40	4	Arandela refor. Ø6.5	*Whaser Ø6.5*	Rondelle Ø6.5	Arandela Ø6.5

INDUSTRIAS TECHNOFLEX, S.A.

Ctra. d'Ullastrell s/n · Av. Castellbisbal s/n
Apartado de correos, 43
E-08191 RUBÍ (Barcelona)-SPAIN

Tel. (+34) 93 588 53 37
Fax (+34) 93 697 37 54
e-mail: technoflex@ficosa.com
Internet: http://www.technoflex.es

Cód.:4046600009 / 05.12

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